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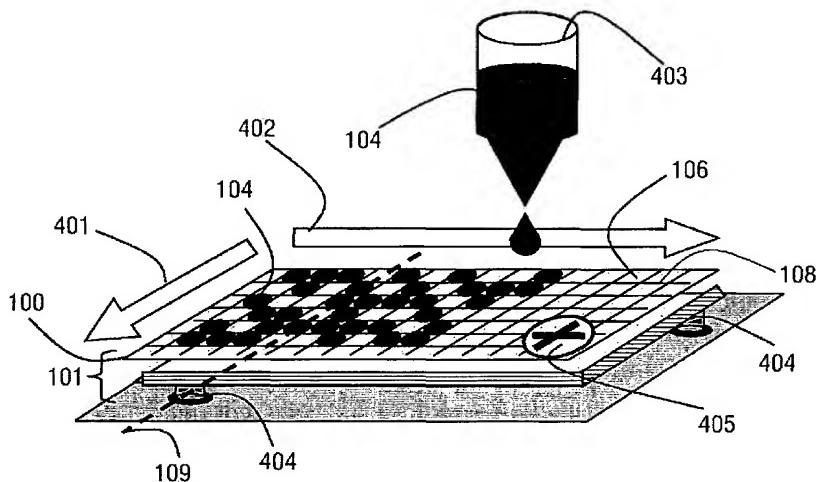
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[Continued on next page]

(54) Title: PRINTED MAGNETIC ROM - MPROM



(57) **Abstract:** The invention relates to a method for storing information on a storage device (100) by depositing electro-magnetic material (104) in a pattern on a sensor surface (106) of the storage device, the pattern representing the information to be stored. The storage device (100) comprises an array of sensor elements (101) that are sensitive to electro-magnetic material (104) within a near field working distance (105). The read-out is done by a resistance measurement which relies on a magneto resistance phenomenon detected in a multilayer stack of the sensor elements (101). The storage device (100), comprising the deposited pattern of electro-magnetic material (104), is a Read Only Memory device. The deposition of the pattern is, for example, possible by scanning a depositing unit (403), e.g. a printer head, in a line-by-line motion across the sensor surface (106), resulting in a Printed Magnetic ROM. This device can also be used as a fingerprint sensor, if a finger is used as template.

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